

Applicant : Schelto Van Doorn  
Serial No. : 09/574,647  
Filed : May 18, 2000  
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Attorney's Docket No.: 12754-064001 / 00P7629

### REMARKS

Claims 1-10 and 20-28 are pending in this application. Claims 11-19 are cancelled. Claims 1-4 and 6-10 are rejected under 35 U.S.C. § 102(b) as being anticipated by Curzio (U.S. Patent No. 5,611,013). Claim 5 is rejected under § 103(a) as being unpatentable over Curzio in view of Lemke et al. (U.S. Patent No. 6,024,584). Claim 1 has been amended, claims 11-19 are cancelled and claims 20-28 are new.

The applicant respectfully traverses the rejections and requests reconsideration in view of the amendments and following remarks.

#### I. The § 102 Rejections

Claims 1-4 and 6-10 stand rejected under 35 § 102(b) as being anticipated by Curzio. Claim 1 recites a transducer including a housing mountable on a substrate, an input/output (I/O) lead supported by the housing and electronic circuitry supported by the housing. The housing is configured to receive a jumper cable. The I/O lead supported by the housing is configured to directly contact an I/O lead of an integrated circuit which is separately mounted on the substrate and outside of the housing of the transducer [emphasis added]. The electronic circuitry transitions between an electronic data transfer protocol of the jumper cable and an electronic data transfer protocol of the integrated circuit.

The Examiner asserts that Curzio discloses a transducer including a housing mountable on a substrate and an I/O lead supported by the housing and configured to contact an I/O lead of an integrated circuit mounted on the substrate. The applicant respectfully disagrees. First, the integrated circuit 37 of Curzio referred to by the Examiner is not mounted on the substrate 3, on which the "housing" 1 of Curzio is mounted. That is, referring to Curzio's FIG. 6, the housing 1 of Curzio may be mounted on a substrate 3, but the integrated circuit 37 is encapsulated within the housing 1. Accordingly, Curzio does not disclose an I/O lead supported by a housing that is configured to directly contact an I/O lead of an integrated circuit that is separately mounted on the substrate and outside of the housing of the transducer, as required by claim 1.

Claim 1 is therefore not anticipated by Curzio and is in condition for allowance. Claims 2-4 and 6-10 depend from claim 1 and are allowable for at least the same reasons.

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## II. The §103 Rejections

Claim 5 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Curzio in view of Lemke. Claim 5 recites the transducer of claim 1, wherein the transducer I/O lead is configured to contact a solder ball lead of the integrated circuit. The Examiner asserts that Lemke discloses the use of solder ball leads to connect an electrical connector and a circuit board. For reasons discussed above in reference to claim 1, Curzio fails to disclose the limitations of the base claim 1 from which claim 5 depends. Lemke fails to cure the deficiencies of Curzio with respect to claim 1, and accordingly, the Curzio in combination with Lemke fails to disclose or suggest the limitations of claim 5. Claim 5 is therefore in condition for allowance.

## III. The New Claims 20-28

Claim 20 recites a transducer including a housing mountable on a substrate, an input/output (I/O) lead supported by the housing and electronic circuitry supported by the housing. The housing is configured to receive a jumper cable. The I/O lead supported by the housing is configured to directly contact an I/O lead of an integrated circuit, where the integrated circuit is separately mounted on the substrate and outside of the housing of the transducer. The electronic circuitry transitions between an electronic data transfer protocol of the jumper cable and an electronic data transfer protocol of the integrated circuit. The electronic circuitry includes a coupler operable to couple data signals carried by a jumper cable received by the housing to a transductional device, a transductional device operable to transition between an electronic data transfer protocol of the jumper cable and an electronic data transfer protocol of the integrated circuit, and a circuit card operable to carry signals between the transductional device and the I/O lead supported by the housing.

For at least the reasons discussed above in reference to claim 1, Curzio fails to disclose a transducer including a housing mountable on a substrate and an I/O lead supported by the housing that is configured to directly contact an I/O lead of an integrated circuit, where the integrated circuit is separately mounted on the substrate and outside of the housing of the transducer. Accordingly, claim 20 and claims 21-28 which depend therefrom, are allowable over Curzio.

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Additionally, Curzio fails to disclose a transducer including the electronic circuitry recited in claim 20. The Examiner simply asserts that the electronic circuitry recited in claim 1 is inside of Curzio's element 1 shown in FIG. 6. Curzio does not describe any such electronic circuitry, and particularly does not describe electronic circuitry that includes a coupler, a transductional device and a circuit card, as recited in claim 20. Claims 20-28 are therefore in condition for allowance.

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No fees are believed due, however please apply any charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: Sep 7, 2004



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